



IAP7 Rec'd PCT/PTO 20 APR 2006

10/576496

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April 20, 2006

**MAIL STOP PCT**

Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450

PCT/JP2004/015879  
-filed October 20, 2004

Re: Application of Toshihisa KOMORI, Naoko KANATANI, Carolina Andrea YOSHIDA, Akira ZANMA, Shinji KOBABYASHI, and Kei YAMANA  
BONE AND/OR JOINT DISEASE-ASSOCIATED GENES  
**Assignee: TEIJIN PHARMA LIMITED and Toshihisa KOMORI**  
Our Ref: Q94468

Dear Sir:

The following documents are submitted herewith in connection with the above application for the purpose of entering the National stage under 35 U.S.C. §371 and in accordance with the Patent Cooperation Treaty:

- a copy of the executed Declaration and Power of Attorney.
- an English translation of the International Application.
- forty-five (45) sheets of drawings (Figs. 1-34).
- Petition for Acceptance of Color Photographs and three (3) sets of the color photographs (Fig. 1, and Figs. 15-34).
- a Statement To Support Filing and Submission in Accordance with 37 C.F.R. §§ 1.821-1.825 with a Computer Readable Disk and paper copy of Sequence Listing (168 pages)
- a copy of Notification Concerning Submission or Transmittal of Priority Document.
- a copy of Receipt of Deposit of Microorganisms under Budapest Treaty.
- a copy of the executed Assignment and PTO 1595 form.
- an Information Disclosure Statement and a copy of the ISR.
- a PTO/SB/08 A & B (modified) listing the ISR references.
- a copy of each reference cited in the ISR.

In addition to the documents submitted herewith, it is assumed that copies of the International Application, the International Search Report and cited references, the International Preliminary Examination Report, and any Articles 19 and 34 amendments as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.

It is expressly requested that the national stage of processing be commenced immediately in accordance with 35 U.S.C. § 371(f).

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National Stage of PCT/JP2004/015879

The Government filing fee is calculated as follows:

Total claims	<u>58</u>	-	<u>20</u>	=	<u>38</u>	x	\$50.00	=	<u>\$1900.00</u>
Independent claims	<u>15</u>	-	<u>3</u>	=	<u>12</u>	x	\$200.00	=	<u>\$2400.00</u>
Base Fee									<u>\$300.00</u>
Search Fee*									<u>\$400.00</u>
Examination Fee*									<u>\$200.00</u>
Multiple Dependent Claim Fee									<u>\$360.00</u>
Excess Application Pages									<u>\$1250.00</u>

<b>TOTAL FILING FEE</b>	<u>\$6810.00</u>
<b>Recordation of Assignment</b>	<u>\$ 40.00</u>
<b>TOTAL FEE</b>	<u>\$6850.00</u>

\* The international search fee for all claims was not paid to the USPTO, as the ISA, but the ISR is being submitted herewith.

Checks for the statutory filing fee of \$6810.00 and Assignment recordation fee of \$40.00 are attached. The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this transmittal letter is attached.

Priority is claimed from:

<u>Country</u>	<u>Application No</u>	<u>Filing Date</u>
Japan	2003-359172	October 20, 2003

Respectfully submitted,

A handwritten signature of Susan J. Mack.

Susan J. Mack  
Registration No. 30,951

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WASHINGTON OFFICE  
**23373**  
CUSTOMER NUMBER

Date: April 20, 2006

(Translation)

FORM 8

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS  
FOR THE PURPOSES OF PATENT PROCEDURE

**RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT**

issued pursuant to Rule 7.1 by the INTERNATIONAL  
DEPOSITORY AUTHORITY identified at the bottom of this page.

**TO DEPOSITOR:**

Name: TEIJIN PHARMA LIMITED

Representative: Shigeo OHYAGI

Address: 1-1, Uchisaiwaicho 2-chome, Chiyoda-ku, Tokyo 100-0011 Japan

<b>I. IDENTIFICATION OF MICROORGANISM</b>	
Identification Reference Given by the Depositor: RU-1	Accession Number: FERM BP-10137
<b>II. A SCIENTIFIC DESCRIPTION AND/OR PROPOSED TAXONOMIC POSITION</b>	
The microorganism identified under I above was accompanied by a document stating the following item(s). <input checked="" type="checkbox"/> A Scientific Property <input checked="" type="checkbox"/> Taxonomic Position	
<b>III. ACCEPTANCE OF REQUEST FOR ORIGINAL DEPOSIT</b>	
This International Depositary Authority accepts the microorganism identified under I above, which was received on	
<b>IV. ACCEPTANCE OF REQUEST FOR TRANSFER</b>	
This International Depositary Authority accepts the microorganism identified under I above, which was accepted on August 5, 2003 (date of the original deposit). (Transferred from P-19467 deposited on August 5, 2003.)	
<b>V. INTERNATIONAL DEPOSITORY AUTHORITY</b>	
Name: International Patent Organism Depository National Institute of Advanced Industrial Science and Technology	
Representative: <u>Dr. Masakazu Yamaoka, Director</u> (sealed)	
Address: AIST Tsukuba Central 6, 1-1, Higashi 1-Chome, Tsukuba-shi, Ibaraki-ken 305-8566 Japan	
Date: October 7, 2004	

書式8(第7条第1項関係)

「特許手続上の微生物の寄託等の国際的承認  
に関するブダペスト条約」

下記国際寄託当局によって規則7.1に従い  
発行する。

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS  
FOR THE PURPOSES OF PATENT PROCEDURE

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT  
issued pursuant to Rule 7.1 by the INTERNATIONAL  
DEPOSITORY AUTHORITY identified at the bottom of this page.

原寄託についての受託証

氏名(名称)

寄託者 希人ファーマ株式会社

代表者 大八木 成男 殿

あて名

〒100-0011  
東京都千代田区内幸町二丁目1番1号

I. 微生物の表示

(寄託者が付した識別のための表示)

RU-1

(受託番号)

FERM BP-10137

II. 科学的性質及び分類学上の位置

I欄の微生物には、次の事項を記載した文字が添付されていた。

- 科学的性質  
 分類学上の位置

III. 原寄託申請の受託

本国際寄託当局は、 年 月 日に受領したI欄の微生物を受託する。

IV. 移管申請の受託

本国際寄託当局は、平成 15 年 8 月 5 日(国内受託日)に受託したI欄の微生物を受託する。

(平成 15 年 8 月 5 日に寄託されたFERM P- 19467 より移管)

V. 国際寄託当局

独立行政法人産業技術総合研究所 特許生物寄託センター

名称 International Patent Organism Depository  
National Institute of Advanced Industrial Science and Technology

センター長 山岡 正樹  
Dr. Masakazu Yamaoka, Director

あて名 日本国 茨城県つくば市東1丁目1番地1 中央第6 (郵便番号305-8566)

AIST Tsukuba Central 6, 1-1, Higashi 1-chome Tsukuba-shi,  
Ibaraki-ken 305-8566 Japan

平成 16 年 (04) 10 月 7 日